

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
8 February 2001 (08.02.2001)

PCT

(10) International Publication Number
WO 01/10079 A1(51) International Patent Classification⁷: H04L 9/32 [KR/KR]: 101-901, Hansung Apt., 698-2, Pung-deokchun-ri, Suji-eub, Yongin-si, Kyonggi-do 449-840 (KR).

(21) International Application Number: PCT/KR00/00811 (KR)

(22) International Filing Date: 27 July 2000 (27.07.2000) (74) Agent: SOHN, Chang, Kyu; 401 In-bong Building, 640-21, Yoksam-dong, Kangnam-gu, Seoul 135-080 (KR).

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data: 1999/31145 29 July 1999 (29.07.1999) KR

(71) Applicant (for all designated States except US): SAFE TECHNOLOGY CO., LTD. [KR/KR]; 48-18 Union Building, 4F, Songpa-Dong, Songpa-Gu, Seoul 138-070 (KR).

(72) Inventor: and

(75) Inventor/Applicant (for US only): LEE, Jong, Woo

(81) Designated States (national): CN, JP, KR, RU, US.

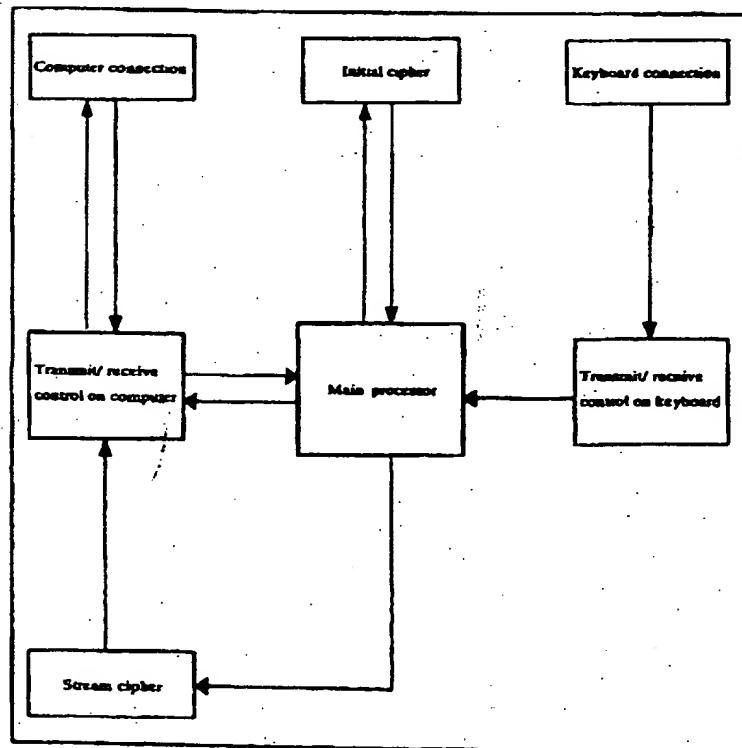
(84) Designated States (regional): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published:

With international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ADAPTER HAVING SECURE FUNCTION AND COMPUTER SECURE SYSTEM USING IT



(57) Abstract: A secure adapter and a secure computer system including thereof to safely transfer the key code input information from the keyboard to the computer system. The invention enables transferring the key code input information after encrypting it only when the secure mode setup command is received from the keyboard or the computer system, and transfer the information from the keyboard to the computer system without encryption if the secure mode clearing command is received or under the secure mode clear state. Also, if storage and processing of the data requires special secure handling, the data can be encrypted and decoded only when the user enters correct password, and safe memory which does not store separate password may be added. If the secure adapter and the computer secure system employing thereof of the present invention is used, it is possible to prevent a third person from intruding into the computer system by hacking and stealing user's secrete data, for stock exchange, Internet banking, cyber transactions and other communications over the Internet, modem communications or network data exchange.